All Terrain Vehicles (ATVs) Presentation

February 2010



Overview

- Voluntary/Mandatory standard for ATVs
- Standard requirements
 - 1) Safety related requirements
 - 2) Youth ATVs speed capability
 - 3) Labels
- Concerns
- Recommendations

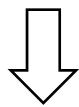
Voluntary Standard

Standards Developer

Specialty Vehicle Institute of America (SVIA)

Accreditation

American National Standards Institute (ANSI)



- ANSI/SVIA-1-1990, published in 1990
- Revised in 2001, ANSI/SVIA-1-2001
- Revised in 2007, ANSI/SVIA-1-2007
- ANSI/SVIA-1-2007

Adopted as **mandatory** standard by Consumer Product Safety Improvement Act (CPSIA), Section 232

• Took effect on April 13, 2009

ANSI/SVIA-1-2007

ATV Definition: Motorized, off-highway vehicle designed to travel on four low-pressure tires, with seat designed to be straddled by the operator, and handlebars for steering.

Types of ATV:



Type I ATV – one person only



Type II ATV – two person tandem

ANSI/SVIA-1-2007

Categories:

Youth:

- Y6 age 6 and older
- Y10 age 10 and older
- Y12 age 12 and older

Transition:

■ T age 14 and older

Adult:

age 16 and older



ANSI/SVIA 1-2007

Major Safety Related Requirements:

- Service Brakes
- Parking Brakes
- Mechanical Suspension
- Category Y and T Speed Capability
 Maximum unrestricted speed
 Maximum limited speed
- Labels

Correct warnings
Appropriate age grading

Requirements

Brakes and Suspension:

Service Brakes

- Must have front and rear brakes
- •If maximum speed <= 18 mph, deceleration must be between 0.2g and 0.5g
- •If maximum speed > 18 mph, deceleration must be > 0.6g

Parking Brakes

- Must have parking brake
- •Must hold at load for 5 minutes on 30% grade

Suspension

- Must have suspension for all wheels
- •2 inches of travel at each wheel

Speed Capability Requirements

Category Y and T Speed Capability Requirements:

Age	ANSI/SVIA 1-2007
6	Y6 24 km/h (15 mph) max speed 16 km/h (10 mph) restricted speed
7	
8	
9	
10	Y10 and Y12 48 km/h (30 mph) max speed 24 km/h (15 mph) restricted speed
11	
12	
13	
14	Т
15	61 km/h (38 mph) max speed 32 km/h (20 mph) and 48 km/h (30 mph) restricted speed
16+	no speed limits

Age Label Requirements

Labels:

Y6

Y10

Y12

Т

adult

A WARNING



Operation of this ATV by children under the age of 6 increases the risk of severe injury or death.

Adult supervision required for children under age 16.

NEVER permit children under age 6 to operate this ATV.

A WARNING



Operation of this ATV by children under the age of 10 increases the risk of severe injury or death.

Adult supervision required for children under

NEVER permit children under age 10 to operate this ATV.

A WARNING



Operation of this ATV by children under the age of 12 increases the risk of severe injury or death.

Adult supervision required for children under age 16.

NEVER permit children under age 12 to operate this ATV.

A WARNING



Operation of this ATV by children under the age of 14 increases the risk of severe injury or death.

Adult supervision required for children under age 16.

NEVER permit children under age 14 to operate this ATV.

addit



Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age **16**.

General Label Requirements For Type 1 ATVs



- Helmet use
- Public roads
- Carrying passengers
- Driving under the influence



Concerns

- Excessive speed on youth ATVs
- Appropriate age grading of youth ATVs
- Lack of front brakes
- Lack of parking brakes
- Lack of front suspension
- Ability to limit speeds using speed limiter

Examples:



- > Y6 labeled ATV max speed exceeds 15 mph
- > no front brake
- failed parking brake test



- > Y6 labeled ATV max speed exceeds 15 mph
- > no front brake
- no parking brake
- > no front suspension

Recommendations

- Conform to all requirements in ANSI/SVIA 1-2007
- Special attention to:
 - > Service brakes, parking brakes, suspension
 - > Youth ATVs speed capability
 - > Labels
 - > Appropriate age grading